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Translated: 23:56:54 JST 10/16/2007

Dictionary: Last updated 10/12/2007 / Priority: 1. Chemistry / 2. Biotechnology

FULL CONTENTS

[Claim(s)]

[Claim 1] The constituent for the mouths which contains the oleophilic component embedding agar grains which carried out embedding of the oleophilic component with agar, and is characterized by things.

[Claim 2] The constituent for the mouths according to claim 1 whose mean particle diameter of oleophilic component embedding agar grains is 200-7000 micrometers.

[Claim 3] The constituent for the mouths according to claim 1 or 2 whose decay load of oleophilic component embedding agar grains is 0.5-100g/piece.

[Detailed Description of the Invention]**[0001]**

[Industrial Application] This invention relates to the constituent for the mouths containing the oleophilic component which has a good feeling of use while the activity of an oleophilic component may be stably maintained in pharmaceutical preparation.

[0002]

[Description of the Prior Art] Triclosan, isopropyl methyl phenol, etc. are conventionally blended with constituents for the mouths, such as dentifrices, as vitamin E and a germicide as a medicinal component including the perfume for raising palatability as an oleophilic component. However, these oleophilic component stuck to the abrasive compound under toothbrushing, a surface active agent, the container surface, etc., or was easy to be incorporated, for this reason, that effect decreased, and there was a problem that sufficient effect was not demonstrated.

[0003] On the other hand, the capsule of form with a diameter of 0.5mm - about 10cm which included oil and fat products has been used in fields, such as not only drugs but health food,

common processed goods, cosmetics, etc., into a coat with a thickness of 0.03mm - about 0.6mm which uses edible high molecular compounds, such as gelatin and a pullulan, as a base. The above-mentioned capsule has safety and high stability edible, when the amount of 1 time used and intake can be correctly packaged separately individually to an oily matter, it has the performance as a hermetic container, and is considered to be the processing technology of the only fats-and-oils food which has these functions at present.

[0004] Then, how to use the above capsules can be considered as a means to blend the above-mentioned oleophilic component with constituents for the mouths, such as dentifrices, stably.

[0005] However, when the coat blends with constituents for the mouths, such as dentifrices, on restriction of water solubility, it passes also in a room temperature, and the above-mentioned capsule is the time. It was difficult for a coat to swell and dissolve, for a content to be emitted, for decay of a coat and deterioration to advance certainly with the surface active agent blended with constituents for the mouths, such as dentifrices, even if it thickens a coat, and to maintain long-term stability.

[0006] Furthermore, since a capsule was hard and inferior to collapsibility although the stability at the time of combination improves when the coat surface of the above-mentioned capsule is covered with water-insoluble nature components, such as a wax and ethyl cellulose, the constituent for the mouths which blended this had foreign body sensation at the time of use, and there was a problem of being inferior to a feeling of use.

[0007] Moreover, a granule and a capsule are blended with the constituent for the mouths, and the constituent for the mouths which gave various functions is proposed. For example, the thing [blend a pigment with granulation, and a pigment is made to **** at the time of brushing, and] aiming at the indicator at the time of the end of toothbrushing (JP,S60-16913,A description), The granulation-like taste component and granulation-like toothbrushing base which were covered with the coating substance are mixed. The thing aiming at change of the taste under toothbrushing (JP,S62-116505,A description), what blended medicinal properties with granulation and attained stabilization of drugs (a JP,48-19738,A number --) The thing (JP,H1-299211,A, 4-243816 gazette description) aiming at 49-132249, 55-153709, the JP,H3-271215,A description, and dental plaque removal etc. is proposed.

[0008] However, the above-mentioned granule and a capsule are a surface active agent, a perfume component, etc., if it will blend with the constituent for the mouths even if it is difficult to carry out embedding of the oleophilic component and it can carry out embedding of the oleophilic component temporarily. While a coat will become vulnerable and emitting an oleophilic component promptly, there is a problem of use of foreign body sensation etc.

[0009] Therefore, the oleophilic component was blended with it, maintaining the activity to the constituent for the mouths stably, and development of the technology of also holding the

feeling of use good was desired.

[0010] This invention aims at offering the constituent for the mouths containing the oleophilic component excellent in a feeling of use, in having been made in view of the above-mentioned situation and maintaining the activity of an oleophilic component stably in pharmaceutical preparation.

[0011]

[Means for Solving the Problem and its Function] In order that this invention person may attain the above-mentioned purpose The oleophilic component embedding agar grains which carried out embedding of the oleophilic component with agar as a result of repeating examination wholeheartedly, When the mean particle diameter blends with the constituent for the mouths preferably 200-7000 micrometers of things whose decay load is 0.5-100g/piece further, It is blended stably, without oleophilic component embedding agar grains' swelling, or destroying the agar coat. When the elution nature of this oleophilic component is also low and the activity of an oleophilic component is maintained stably, the above-mentioned oleophilic component embedding agar grains carry out the knowledge of oiliness and the constituent for the mouths which does not have admiration stickily, either and was excellent in a feeling of use being obtained [the foreign body sensation at the time of combination, and] further, and came to make this invention.

[0012] Therefore, this invention contains the oleophilic component embedding agar grains which carried out embedding of the oleophilic component with agar, and the constituent for the mouths characterized by things is offered.

[0013] Although toothbrushing, such as tooth paste, liquefied toothbrushing, and liquid toothbrushing, gingival massage cream, a paste state partial ointment, etc. will be hereafter mentioned as a constituent for the mouths of this invention if it explains per this invention and also to details, The oleophilic component embedding agar grains which are used especially in the paste state and carried out embedding of the oleophilic component with agar are contained.

[0014] In the above-mentioned constituent for the mouths, the oleophilic component in particular blended is not restricted, the oleophilic component usually blended can be used, for example, a perfume component, an oil-soluble vitamin, an oleophilic germicide, an oleophilic pigment, etc. are mentioned. It is a perfume component concretely. **, Mentol, anethole, carvone, eugenol, limonene, n-decyl alcohol, citronellol, alpha-terpineol, citronellyl acetate, Cineole, linalool, ethyl linalool, WANIRIN, Timor, spearmint oil, peppermint oil, lemon oil, orange oil, a sage oil, rosemary oil, cinnamon oil, pimento oil, Katsura leaf oil, a beefsteak plant oil, wintergreen oil, clove oil, eucalyptus oil, etc. are illustrated.

[0015] Moreover, specifically, it is as oleophilic components other than a perfume component, Vitamin E, vitamin D, vitamin A, lecithin, beta-carotene, DHA (docosa-hexaenoic acid),

Oleophilic germicides [, such as triclosan isopropyl methyl phenol, and bisabolol,], such as EPA (eicosapentaenoic acid), liver oil, squalene, medium-chain-fatty-acid triglyceride, and a food oil, etc. are illustrated. In addition, these oleophilic component may blend one sort independently, or may blend it combining two or more sorts.

[0016] Furthermore, in agar grains, if needed, it is independent or is the above-mentioned lipophilic component. Can blend an oleophilic pigment and a coloring component and For example, red No. 215, red No. 225, It is independent in yellow No. 204, yellow No. 205, green No. 202, purple No. 201, copper chlorophyll, beta-carotene, etc., or embedding of the two or more sorts can be used together and carried out, and adjustment of the improvement in visibility, grant of the indicator effect, appearance, etc. is possible by blending these pigments and a coloring component.

[0017] In this invention, although well-known methods, such as a dropping test (refer to a JP,51-8875,B number, 53-1067, and JP,H4-45753,A), can be chosen, for example as a method of carrying out embedding of the above-mentioned oleophilic component with agar, if the same agar grains can be manufactured, it will not be limited to this.

[0018] Moreover, as for especially the grain size of the above-mentioned oleophilic component embedding agar grains, it is desirable for 200-7000 micrometers of mean particle diameter to be the ranges which are 500-3000 micrometers. When larger [if mean particle diameter is smaller than 200 micrometers, problems, such as increase of air oxidation accompanying the fall of particle strength, the fall of oleophilic component loadings, and increase of coat surface area, may arise, and] than 7000 micrometers, there is a problem of producing foreign body sensation when it blends with the constituent for the mouths, or sensing oiliness.

[0019] [furthermore, the coat hardness of oleophilic component embedding agar grains] For example, SUN by the San science company RHEO METER Model When measuring using CR-200D, When you put one of grains on the interval on the surface of hard of two sheets in the state of infiltration and this is compressed into water the velocity for loading speed/of 3mm, decay load should set 0.5-100g/piece in the range of 1-70g/piece especially. The range which collapses and emits a content is suitable. As for a less than 0.5g/piece grain, decay load is eluted easily [an oleophilic component] in a constituent. When it kept, or grains may break at the time of constituent manufacture, the piece was exceeded in 100g /and it blends with the constituent for the mouths, foreign body sensation may be sensed, brushing may not decompose at all, either, but it may be inferior to a feeling of use.

[0020] In this invention constituent, it is the blending ratio of coal of the grains of the above-mentioned oleophilic component embedding agar grains, if the effect of the oleophilic component which the thing of the whole constituent especially considered as 0.05 to 10% 0.01 to 10% (weight % and the following -- the same) was desirable, and carried out embedding at less than 0.01% may not fully be demonstrated and exceeds 10%, a good feeling of use may

not be obtained

[0021] In addition to the component mentioned above, the proper component according to the kind of the purpose and constituent etc. can be further blended with the constituent for the mouths of this invention with a usual dose.

[0022] In the case of toothbrushing, for example, dibasic calcium phosphate and 2 hydrate and anhydride, The 1st calcium phosphate, tribasic calcium phosphate, calcium carbonate, pyrophosphoric acid calcium, One sort or two sorts or more, such as a synthetic resin of aluminium hydroxide, alumina, a silicic acid anhydride, aluminium silicate, insoluble sodium metaphosphate, the 3rd magnesium phosphate, magnesium carbonate, calcium sulfate, polymethyl methacrylate, bentonite, a zirconium silicate, and others It can blend (usually 5 to 60% of loadings).

[0023] Moreover, in the case of paste state constituents, such as tooth paste, it is, As a binder, KARAGENAN, carboxymethylcellulose sodium, Cellulosics, such as methyl cellulose, hydroxyethyl cellulose, and carboxymethyl hydroxyethyl cellulose sodium, Gums, such as xanthan gum, tragacanth gum, karaya gum, and gum arabic, One sort of inorganic binders, such as synthetic binders, such as polyvinyl alcohol, sodium polyacrylate, a carboxyvinyl polymer, and polyvinyl pyrrolidone, a silica gel, an aluminium silica gel, veegum, and RAPONAITO, or two sorts or more can be blended (usually 0.2 to 5% of loadings).

[0024] Furthermore, it is in paste state, such as toothbrushing, or the constituent for the liquefied mouths, As a viscous agent, sorbitol, glycerol, ethylene glycol, propylene glycol, One sort, such as 1, 3-butylene glycol, polyethylene glycol, polypropylene glycol, xylitol, maltitol, and RAKUCHITORU, or two sorts or more can be blended (usually 10 to 80% of loadings).

[0025] In this invention constituent, it is necessity. To agar grains, in the state where embedding is not carried out Mentor, anethole, carvone, Eugenol, limonene, n-decyl alcohol, citronellol, alpha-terpineol, citronellyl acetate, cineole, linalool, Ethyl linalool, WANIRIN, Timor, spearmint oil, peppermint oil, Lemon oil, orange oil, a sage oil, rosemary oil, cinnamon oil, pimento oil, Independently perfume, such as Katsura leaf oil, a beefsteak plant oil, wintergreen oil, clove oil, and eucalyptus oil, or others [blend / (usually 0.1 to 2% of loadings) / it / combining two or more sorts], Saccharin sodium, stevioside, neohesperidyl dihydrochalcone, glycyrrhizin, PERIRA rutin, thaumatin, and asparagus -- sweetening agents, such as chill phenylalanine methyl ester and p-methoxy thinner MIKKU aldehyde, etc. can be blended (usually 0.01 to 1% of loadings).

[0026] In addition, set to this invention. The effect of this invention in ** and the range which is not barred as an active principle A dextranase, Enzymes, such as mutanase, lysozyme, amylase, protease, lytic enzyme, and super oxide DIMUSUTAZE, Alkali metal mono-fluoro phosphate, such as mono-fluorophosphoric acid sodium and mono-fluorophosphoric acid potassium, Fluorides, such as sodium fluoride and the 1st tin of fluoridation, tranexamic acid,

epsilon aminocaproic acid, Aluminium KURORU hydroxy allantoin, a dihydrocholestanol, Glycyrrhizin acids, glycyrrhetic acid, bisabolol, isopropyl methyl phenol, One sort of active principles, such as glycerophosphate, chlorophyll, cupric gluconate, sodium chloride, a water-soluble inorganic-phosphoric-acid compound, triclosan, cetyl pyridinium chloride, a benzalkonium chloride, and *****, or two sorts or more can be blended. In addition, the loadings of an active principle can be made a regular amount in the range which does not bar the effect of this invention.

[0027] Moreover, as a surface active agent, an anionic surface active agent, a nonionic surface active agent, and an amphiphilic surface active agent can be used. As an anionic surface active agent Sodium alkylsulfate, such as **, sodium lauryl sulfate, and methyl sodium sulfate, N-acyl ZARUKOSHIN acid sodium, such as N-lauroyl ZARUKOSHIN acid sodium and N-myristoyl ZARUKOSHIN acid sodium, Sodium dodecylbenzenesulfonate, hydrogenation coconut fatty acid monoglyceride mono-sodium sulfate, N-acyl glutamate, such as sodium lauryl sulfosulfate and N-palmitoyl sodium glutamate, N-methyl N-acyl taurine sodium, N-methyl N-acyl alanine sodium, alpha olefin sulfonic acid sodium, etc. are used.

[0028] As a nonionic surface active agent Sugar fatty acid ester, such as **, sucrose fatty acid ester, maltose fatty acid ester, and lactose fatty acid ester, Sugar-alcohol fatty acid ester, such as maltitol fatty acid ester and RAKUCHITORU fatty acid ester, Polyoxyethylene sorbitan fatty acid ester, such as polyoxyethylene sorbitan monolaurate and polyoxyethylenesorbitan monostearate, Polyoxyethylene fatty acid ester, such as polyoxyethylene hydrogenated castor oil, Diethanolamide and myristic acid mono-** lauric acid mono-** Fatty acid diethanolamide, such as diethanolamide, A sorbitan fatty acid ester, polyoxyethylene higher alcohol ether, a polyoxyethylene polyoxypropylene copolymer, polyoxyethylene polyoxypropylene fatty acid ester, etc. are used.

[0029] As an amphiphilic surface active agent N-alkyl diamino ethyl glycine, such as **, N-lauroyl diamino ethyl glycine, and N-millimeter SUCHIRUJI aminoethyl glycine, N-alkyl N-carboxymethyl ammonium betaine, 2-alkyl 1-hydroxyethyl imidazoline betaine sodium, etc. are used.

[0030] In this case, as a surface active agent, an anionic surface active agent is used suitably and sodium alkylsulfate, such as sodium lauryl sulfate, is used still more desirably.

[0031] In addition, even if these surface active agents use one of them independently and they use two or more sorts together, they do not interfere. moreover, the loadings of a surface active agent -- usually -- the constituent whole -- 0.05 to 3% is especially desirable 0.01 to 5%.

[0032] this invention constituent can blend and dye a pigment and a colorant. In this case, although various things are used as a pigment and a colorant, red No. 2, red No. 3, red No. 225, red No. 226, yellow No. 4, yellow No. 5, yellow No. 205, blue No. 1, blue No. 2, blue No. 201, blue No. 204, green No. 3, mica titanium, titanium oxide, etc. are used suitably, for

example. In addition, although embedding of the oil-soluble component can be carried out to agar and it can be used for it among the above-mentioned components, you may blend, without carrying out embedding of the part.

[0033]

[Effect of the Invention] When the activity of the blended oleophilic component is maintained stably, there is no admiration stickily, it excels in a feeling of use, and the constituent for the mouths of this invention can be prepared [foreign body sensation, oiliness, and] to various pharmaceutical forms, and can be used broadly.

[0034]

[Example] Although the example of an experiment and a work example are given and this invention is explained concretely hereafter, this invention is not restricted to the following work example. In addition, each % in each example is weight %.

[0035] [Example 1 of agar grain manufacture] Mentor combination agar grain A(mean-particle-diameter [of 1000 micrometers], 10g/piece decay load)500g was manufactured in the dropping test by the following example of combination (JP,H1-193216,A and Example 5 are the same as that of the following depended on a method). Moreover, agar grain [of the mean particle diameter of 150 micrometers and 10g/piece of decay loads] A' was similarly manufactured for comparison.

The contents liquid of a grain: Mentor, medium-chain-fatty-acid triglyceride, green No. 202

Grain coat : Agar, glycerol, water [0036] [Example 2 of agar grain manufacture] Agar grain B (mean-particle-diameter [of 2000 micrometers], 30g/piece decay load)1kg of vitamin-E combination was manufactured in the dropping test by the following example of combination. Moreover, agar grain [of the mean particle diameter of 8000 micrometers and 30g/piece of decay loads] B' was similarly manufactured for comparison.

The contents liquid of a grain: Vitamin E, squalene grain coat : Agar, glycerol, water [0037]

[Example 3 of agar grain manufacture] Agar grain C(mean-particle-diameter [of 1500 micrometers], 5g/piece decay load)500g of isopropyl methyl phenol combination was manufactured in the dropping test by the following example of combination. Moreover, agar grain [of the mean particle diameter of 1500 micrometers and 0.4g/piece of decay loads] C' was similarly manufactured for comparison.

The contents liquid of a grain: Isopropyl methyl phenol, medium-chain-fatty-acid triglyceride

grain coat : Agar, glycerol, water [0038] [Example 4 of agar grain manufacture] Agar grain D (mean-particle-diameter [of 1000 micrometers], 15g/piece decay load)300g of lemon oil combination was manufactured in the dropping test by the following example of combination. Moreover, agar grain [of the mean particle diameter of 1000 micrometers and 165g/piece of decay loads] D' was similarly manufactured for comparison.

The contents liquid of a grain: Lemon oil, medium-chain-fatty-acid triglyceride, copper

chlorophyll grain coat : Agar, glycerol, water [0039] [A work example 1, a comparative example 1]

The agar grains A or A'2% silicic acid anhydride 16 propylene-glycol 3 sorbitol liquid (60%) 25 carboxymethylcellulose 1 saccharin-sodium 0.1 sodium-lauryl-sulfate 1.0 perfume 1.0 water prepared in the example 1 of manufacture Balance Total 100.0% [0040] [A work example 2, a comparative example 2]

The agar grains B or B'1% aluminium hydroxide 35 propylene-glycol 2 glycerol (85%) 22 carboxymethylcellulose 1 tranexamic-acid 0.01 saccharin-sodium 0.1 sodium-lauryl-sulfate 1.5 perfume 1.1 water prepared in the example 2 of manufacture Balance Total 100.0% [0041] [A work example 3, a comparative example 3]

Agar grain C or C'0.5% dibasic-calcium-phosphate, and dihydrate 45 glycerol (85%) 19 xanthan-gum 0.6 sodium-polyacrylate 0.4 saccharin-sodium 0.2 sodium-lauryl-sulfate 1.3 perfume 0.9 water prepared in the example 3 of manufacture Balance Total 100.0% [0042] [A work example 4, a comparative example 4]

The agar grains D or D'1.5% glycerol (85%) 22 sorbitol liquid (60%) 49 polyethylene-glycol 3 xanthan-gum 0.1 sodium-polyacrylate 0.6 saccharin-sodium 0.2 sodium-lauryl-sulfate 1.5 perfume 1.0 water prepared in the example 4 of manufacture Balance Total 100.0% [0043]

After preparing the above-mentioned constituent for the mouths (work examples 1-4, comparative examples 1-4), under each temperature conditions (25 degrees C, 40 degrees C, 50 degrees C), it saved in the aluminum lamination inner tube, and the temporal stability (one to three months) and the feeling of use of grains which were blended were evaluated in accordance with the following bases. A result is shown in Table 1.

with [it is equivalent to the time of appearance O:combination of grains, and] no change -- feeling of use O: by which some coats of x:grain with which **:grain is swelling are destroyed -- good feeling of use **: -- a little -- those with foreign body sensation -- slightly oily -- a little -- stickily -- those with x:foreign body sensation with admiration -- oily -- stickily -- 50 grains of agar grains out of the constituent for the elution nature mouths of an oleophilic component with admiration It extracted, methanol 3ml was added, the glass homogenizer ground the grain coat, and the content was fully distributed. 3ml of internal standard substances as shown in this below were added, and it was correctly referred to as 10ml, and measured on condition of the following, and the elution nature of the lipophilic component in grains was evaluated. A result is shown in Table 1.

[0044] Measurement conditions: The ** work example 1 and comparative example 1:Mentor were made into the index, and were measured on condition of the following.

Internal-standard solution: Methanol solution of benzyl propionate (2.5->100)

Detecting element: Hydrogen flame ionization detector column: What covered polyethylene glycol (PEG 20M) with 10% of rate at acid treatment and the 150-180-micrometer

diatomaceous earth for gas chromatographs which carried out dimethyl chlorosilane treatment to the glass tube with an inside diameter of about 2mm, and a length of about 2m.
 column temperature: -- constant temperature pouring part temperature [near 130 degree C]: -
 - constant temperature carry Argus [near 240 degree C]: -- nitrogen flow rate: It adjusts so that the elution time of Mentor may become in about 11 - 13 minutes.

[0045] ** A work example 2, a comparative example 2 : vitamin E was made into the index and measured on condition of the following.

Internal-standard solution: Methanol solution of ergocalciferol (1->80000)

Detecting element: Ultraviolet absorptiometer (measurement wavelength: 284nm)

Column: A stainless steel pipe with an inside diameter of about 4mm and a length of about 15cm is filled up with about 5-micrometer octadecyl silanizing silica gel for liquid chromatographs.

Column temperature: Room temperature mobile phase: Methanol flow rate: It adjusts so that the retention time of vitamin E may become before or after about 10 minutes.

[0046] ** A work example 3, a comparative example 3 : isopropyl methyl phenol was made into the index and measured on condition of the following.

Internal-standard solution: Methanol solution of parahydroxybenzoic acid isoamyl (1->125000)

Detecting element: Ultraviolet absorptiometer (measurement wavelength: 280nm)

Column: A stainless steel pipe with an inside diameter of about 4mm and a length of about 15cm is filled up with about 5-micrometer octadecyl silanizing silica gel for liquid chromatographs.

column temperature: -- constant temperature mobile phase near 45 degree C: water: -- acetonitrile: -- glacial-acetic-acid mixture (60:40:1)

Flow rate: It adjusts so that the retention time of isopropyl methyl phenol may become before or after about 16 minutes.

[0047] ** A work example 4, a comparative example 4 : limonene was made into the index and measured on condition of the following.

Internal-standard solution: Methanol solution of benzyl propionate (2.5->100)

Detecting element: Hydrogen flame ionization detector column: What covered polyethylene glycol (PEG 20M) with 10% of rate at acid treatment and the 150-180-micrometer

diatomaceous earth for gas chromatographs which carried out dimethyl chlorosilane treatment to the glass tube with an inside diameter of about 2mm, and a length of about 2m.

column temperature: -- constant temperature pouring part temperature [near 130 degree C]: -
 - constant temperature carry Argus [near 240 degree C]: -- nitrogen flow rate: It adjusts so that the elution time of limonene may become in about 11 - 13 minutes.

[0048] Elution rate (%) = [1 - (amount of lipophilic components in 50 grains blended with amount of lipophilic components / pharmaceutical preparation which remained in 50 grains)] x 100

[0049]

[Table 1]

			1ヵ月			2ヵ月			3ヵ月		
			25℃	40℃	50℃	25℃	40℃	50℃	25℃	40℃	50℃
実施例 1	粒径： 1000 μm 崩壊荷重： 10g/個	外 観	○	○	○	○	○	○	○	○	○
		使用感	○	○	○	○	○	○	○	○	○
		溶出率 (%)	0.8	1.4	2.5	1.4	2.7	2.9	2.4	3.4	4.9
比較例 1	粒径： 150 μm 崩壊荷重： 10g/個	外 観	△	△	×	×	×	×	×	×	×
		使用感	△	△	△	△	△	△	△	△	△
		溶出率 (%)	20.7	27.8	29.1	27.5	31.2	36.4	34.7	44.0	54.1
実施例 2	粒径： 2000 μm 崩壊荷重： 30g/個	外 観	○	○	○	○	○	○	○	○	○
		使用感	○	○	○	○	○	○	○	○	○
		溶出率 (%)	1.1	1.4	2.0	2.0	2.1	3.1	4.0	4.2	5.2
比較例 2	粒径： 8000 μm 崩壊荷重： 30g/個	外 観	○	○	○	○	○	△	△	△	△
		使用感	×	×	×	×	×	×	×	×	×
		溶出率 (%)	1.8	1.8	5.7	3.2	8.2	9.7	9.1	10.4	20.2
実施例 3	粒径： 1500 μm 崩壊荷重： 5g/個	外 観	○	○	○	○	○	○	○	○	○
		使用感	○	○	○	○	○	○	○	○	○
		溶出率 (%)	0.4	1.9	2.7	1.9	3.7	4.2	2.8	4.5	4.9
比較例 3	粒径： 1500 μm 崩壊荷重： 0.4g/個	外 観	△	△	×	△	×	×	△	×	×
		使用感	△	×	×	△	×	×	×	×	×
		溶出率 (%)	8.5	9.9	14.0	22.7	24.1	33.4	29.5	37.2	41.8
実施例 4	粒径： 1000 μm 崩壊荷重： 15g/個	外 観	○	○	○	○	○	○	○	○	○
		使用感	○	○	○	○	○	○	○	○	○
		溶出率 (%)	1.5	2.5	3.0	5.7	8.2	10.4	9.5	10.1	19.8
比較例 4	粒径： 1000 μm 崩壊荷重： 165g/個	外 観	○	○	○	○	○	○	○	○	○
		使用感	×	×	×	×	×	×	×	×	×
		溶出率 (%)	1.3	1.4	2.1	4.8	6.9	9.4	12.5	13.4	13.8

[0050] From the result of Table 1, the constituent for the mouths of this invention was excellent in appearance and a feeling of use, and it was checked that the elution rate of an oleophilic component is small.

[0051] [Work example 5]

Agar grain 4% glycerol (85%) 10.0 ethanol 5.0 polyoxyethylene (60mol) hydrogenated-castor-oil 0.1 cane-sugar monopalmitate 0.2 saccharin-sodium 0.1 perfume 0.6 water prepared in the example 1 of manufacture Balance Total 100.0%

[Translation done.]